



## Water-Data Report 2008

**01467080 SOUTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 39°56'25", long 74°58'54" referenced to North American Datum of 1983, Burlington County, NJ, Hydrologic Unit 02040202, at Old Kings Highway, 270 ft east from Kings Highway (State Route 41), 1.3 mi southeast from Maple Shade, and 3.0 mi upstream from confluence with North Branch Pennsauken Creek.

DRAINAGE AREA.--8.10 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1964-65, 1967, 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 18.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Sample medium and type	Turbdty white light, det ang 90+/-30 corrctd	UV absorb- ance, wat flt units	UV absorb- ance, wat flt units	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units
		NTRU (63676)	/cm (50624)	/cm (61726)		mm Hg (00025)	mg/L (00300)	percent of sat- uration (00301)	
Nov 07...	1030	Surface water, regular	10	.168	.129	764	8.4	74	7.1
Feb 19...	1000	Surface water, regular	7.4	.104	.080	758	9.8	81	7.5
May 29...	1000	Surface water, regular	7.6	.136	.101	767	6.9	69	7.1
Aug 28...	1015	QC - Artificial, field blank	--	--	--	--	--	--	--
Aug 28...	1030	Surface water, regular	2.8	.107	.085	761	7.0	76	7.1

## 01467080 SOUTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Specif-ic conductance, wat unf $\mu\text{S}/\text{cm}$				Hard-ness, water, mg/L as CaCO <sub>3</sub>				Magnes-ium, water, mg/L				Potas-sium, water, mg/L				Sodium, water, mg/L				ANC, wat unf fixed end pt, lab, mg/L as CaCO <sub>3</sub>				Chlor-ide, water, mg/L				Fluor-ide, water, mg/L				Silica, water, mg/L as SiO <sub>2</sub>				Sulfate water, mg/L			
	25 degC (00095)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	water, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, mg/L (00915)	Magnes-ium, water, mg/L (00925)	Potas-sium, water, mg/L (00935)	Sodium, water, mg/L (00930)	Chlor-ide, water, mg/L as CaCO <sub>3</sub> (90410)	Fluor-ide, water, mg/L (00950)	Silica, water, mg/L as SiO <sub>2</sub> (00955)	Sulfate water, mg/L (00945)																												
Nov 07...	310	13.0	9.5	70	19.2	5.33	5.89	23.4	29	42.7	.14	7.0	26.4																											
Feb 19...	750	3.0	7.2	110	30.5	7.99	6.19	90.8	31	168	.16	11.1	43.6																											
May 29...	438	19.5	15.4	96	26.7	7.24	8.14	35.3	38	65.4	.21	11.3	36.4																											
Aug 28...	--	--	--	--	--	--	--	--	--	--	--	--	--																											
28...	488	19.0	19.3	100	28.3	7.84	12.8	42.4	27	60.8	.21	10.6	46.1																											

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Residue water, fltrd,	Residue on evap.	Residue total at 180degC	Ammonia + org-N, water, mg/L as N (00623)		Nitrate + nitrite water, mg/L as N (00608)	Partic-ulate nitrogen, susp., water, mg/L (00631)	Total nitro- gen, water, mg/L (49570)	Total nitro- gen, water, mg/L (00602)	Ortho-phosphate, water, fltrd, mg/L as P (00600)	Phos-phorus, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd, mg/L as P (00666)	Total carbon, suspnd sedimnt, mg/L (00694)	
	sum of constituents	wat flt	mg/L (70301)	mg/L (70300)	mg/L (00530)	mg/L (00623)	mg/L (00608)	mg/L (00631)	mg/L (49570)	mg/L (00602)	mg/L (00600)	mg/L (00671)	mg/L (00666)	mg/L (00665)
Nov 07...	166	189	3	.70	.112	4.04	.15	4.7	4.9	.048	.086	.251	1.1	
Feb 19...	E392	402	8	.54	.010	3.31	.07	3.9	3.9	E.005	.024	.160	.6	
May 29...	E241	264	1	.83	.222	6.05	.12	6.9	7.0	E.007	.044	.175	.8	
Aug 28...	--	--	--	--	--	--	--	--	--	--	--	--	--	
28...	284	320	1	1.0	.216	12.8	.08	14	14	.375	.39	.48	.5	

## 01467080 SOUTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, μg/L (01000)	Arsenic water, unfltrd, μg/L (01002)	Barium, water, unfltrd recover -able, μg/L (01007)	Beryll- ium, water, unfltrd recover -able, μg/L (01012)	Boron, water, unfltrd recover -able, μg/L (01020)	Boron, water, unfltrd recover -able, μg/L (01022)	Cadmium water, unfltrd recover -able, μg/L (01027)	Chrom- ium, water, unfltrd recover -able, μg/L (01034)	Copper, water, unfltrd recover -able, μg/L (01040)
Nov 07...	<.04	1.1	4.4	--	--	--	--	64	--	--	--	--
Feb 19...	<.04	.6	3.3	.39	.62	43.1	.11	65	76	.11	.55	--
May 29...	M	.8	4.8	--	--	--	--	97	--	--	--	--
Aug 28...	--	--	--	<.06	--	--	--	--	--	--	<1.0	--
28...	<.04	.5	4.7	.81	.89	35.8	<.04	147	160	.04	E.29	--
												6.1

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 5 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Mangan-										
	Iron, water, unfltrd recover -able, μg/L (01045)	Lead, water, unfltrd recover -able, μg/L (01049)	Lead, water, unfltrd recover -able, μg/L (01051)	Mercury water, unfltrd recover -able, μg/L (01055)	Mercury water, unfltrd recover -able, μg/L (71890)	Mercury water, unfltrd recover -able, μg/L (71900)	Nickel, water, unfltrd recover -able, μg/L (01065)	Nickel, water, unfltrd recover -able, μg/L (01067)	Selenium water, unfltrd recover -able, μg/L (01147)	Silver, water, unfltrd recover -able, μg/L (01077)	Zinc, water, unfltrd recover -able, μg/L (01090)
Nov 07...	--	--	--	--	--	--	--	--	--	--	--
Feb 19...	1,580	--	.25	137	--	<.010	--	6.2	.12	E.01	--
May 29...	--	--	--	--	--	--	--	--	--	--	--
Aug 28...	--	<.08	--	--	<.010	--	<.20	--	--	<1.8	--
28...	406	--	.20	23.9	--	<.010	--	5.0	.13	E.01	--
											19.0

## 01467080 SOUTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	1-Naph-thol, water, 0.7u GF μg/L (49295)	2,6-Di-ethyl-aniline, water, 0.7u GF μg/L (82660)	2Chloro- -2',6'-diethyl acetanilide wat flt μg/L (61618)	CIAT, water, fltrd, μg/L (04040)	2-Ethyl- -6-methyl-chloro-aniline water, fltrd, μg/L (61620)	3,4-Di-chloro-aniline water, fltrd, μg/L (61625)	3,5-Di-chloro-aniline water, fltrd, μg/L (61627)	4-Chloro- 2methyl-phenol, water, fltrd, μg/L (61633)	Aceto-chlor, water, fltrd, μg/L (49260)	Ala-chlor, water, fltrd, μg/L (46342)	alpha-Endo-sulfan, water, fltrd, μg/L (34362)	Atra-zine, water, fltrd, μg/L (39632)	Azin-phos-methyl oxon, water, fltrd, μg/L (61635)
May 29...	E.02	<.006	<.010	E.021	<.010	E.041	<.008	<.005	<.014	<.006	<.006	.032	<.04

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Azin-phos-methyl, water, 0.7u GF μg/L (82686)	Ben-flur-alin, water, 0.7u GF μg/L (82673)	Car-baryl, water, 0.7u GF μg/L (82680)	Carbo-furan, water, 0.7u GF μg/L (82674)	Chlor-pyrifos oxon, water, 0.7u GF μg/L (61636)	Chlor-pyrifos water, 0.7u GF μg/L (38933)	Chlor-pyrifos water, 0.7u GF μg/L (82687)	cis-Per-methrin water, 0.7u GF μg/L (79846)	cis-Propi-conazole, water, 0.7u GF μg/L (04041)	Cyana-zine, water, 0.7u GF μg/L (61585)	Cyflu-thrin, water, 0.7u GF μg/L (61595)	Iambda-Cyhalothrin, water, 0.7u GF μg/L (61586)	Cyper-methrin water, 0.7u GF μg/L (82682)	DCPA, water, fltrd, μg/L (61586)
May 29...	<.120	<.010	E.184	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Desulf- inylfipro- nil, water, fltrd, μg/L (62170)	Diazi-non, water, fltrd, μg/L (39572)	Dicro-tophos, water, fltrd, μg/L (38454)	Diel-drin, water, fltrd, μg/L (39381)	Dimeth-oate, water, 0.7u GF μg/L (82662)	Disulf- oton, water, 0.7u GF μg/L (61640)	Disul- foton, water, 0.7u GF μg/L (82677)	Endo- sulfan, water, 0.7u GF μg/L (61590)	EPTC, water, 0.7u GF μg/L (82668)	Ethion, monoxon water, 0.7u GF μg/L (61644)	Ethion, water, 0.7u GF μg/L (82346)	Etho-prop, water, 0.7u GF μg/L (82672)	Fenami-phos- sulfone, water, fltrd, μg/L (61645)	
May 29...	E.008	<.005	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053	

## 01467080 SOUTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Fenami-phos sulf- oxide, water, fltrd, μg/L (61646)	Fenami-phos, water, fltrd, μg/L (61591)	Desulf-inyl- fipro- nil sulfide amide, wat flt μg/L (62169)	Fipro-nil sulfide water, fltrd, μg/L (62167)	Fipro-nil sulfone water, fltrd, μg/L (62168)	Fipro-nil sulfone water, fltrd, μg/L (62166)	Fonofos water, fltrd, μg/L (04095)	Hexa-zinone, water, fltrd, μg/L (04025)	Ipro-dione, water, fltrd, μg/L (61593)	Isofen-phos, water, fltrd, μg/L (61594)	Mala-oxon, water, fltrd, μg/L (61652)	Mala-thion, water, fltrd, μg/L (39532)	Meta-laxyl, water, fltrd, μg/L (61596)
May 29...	<.20	<.03	<.029	E.009	E.011	E.035	<.010	<.008	<.01	<.006	<.020	<.016	<.007

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 5 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Methid-athon, water, fltrd, μg/L (61598)	Methyl para-thion, water, fltrd, μg/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF (82667)	Metola-chlor, water, fltrd, μg/L (39415)	Metri-buzin, water, fltrd, μg/L (82630)	Moli-nate, water, fltrd, 0.7u GF (82671)	Myclo-butanol water, fltrd, μg/L (61599)	Oxy-fluor-fen, water, fltrd, μg/L (61600)	Pendi-methalin, water, fltrd, 0.7u GF (82683)	Phorate oxon, water, fltrd, μg/L (61666)	Phorate water, fltrd, 0.7u GF (82664)	Phosmet oxon, water, fltrd, μg/L (61668)	Phosmet water, fltrd, μg/L (61601)
May 29...	<.004	<.01	<.008	.030	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 6 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Prome-ton, water, fltrd, μg/L (04037)	Prome-tryn, water, fltrd, μg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF (82676)	Propy-zamide, water, fltrd, 0.7u GF (82679)	Propanil, water, fltrd 0.7u GF	Propar-gite, water, fltrd 0.7u GF	Propar-gite, water, fltrd 0.7u GF	Tebu-thiuron water, fltrd 0.7u GF	Teflu-thrin, water, fltrd 0.7u GF	Terbufos water, fltrd 0.7u GF	Terbu-fos, water, fltrd 0.7u GF	Terbutyl-azine, water, fltrd 0.7u GF	Thio-bencarb, water, fltrd 0.7u GF	trans-Propi-conazole, water, fltrd μg/L (79847)
May 29...	.11	<.006	<.004	<.006	<.04	<.006	<.02	<.003	<.04	<.04	<.02	<.01	<.010	<.02

**01467080 SOUTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE, NJ—Continued****WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO  
SEPTEMBER 2008**

Part 7 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Tri-flur-alin, phos, water, water, filtrd, filtrd, µg/L (61610)	water, filtrd, 0.7u GF µg/L (82661)	Di-chlor-vos, water, filtrd, µg/L (38775)
<b>May 29...</b>	<.035	<.009	<.01